B. Claims

The following is a complete listing of the claims, and replaces all earlier versions and listings.

- 1. (Currently Amended) A fabrication method of a mold for a microlens having a desired radius (R) of curvature, said method comprising the steps of:
 - (a) preparing a substrate at least a portion of which is electrically conductive;
- (b) forming an insulating mask layer on the conductive portion of the substrate;
- (c) forming an opening in the mask layer to expose the conductive portion of the substrate at the opening such that a diameter or width (ϕ) of the opening is $10\mu\text{m} \le \phi \le 0.35\text{R}$; [[and]]
- (d) performing electroplating to form the mold with the desired radius (R) of curvature using the conductive portion of the substrate as a cathode to deposit a plated layer in the opening and on the mask layer; and
- (e) terminating electroplating when the electroplated layer reaches the desired radius (R) of the curvature after forming a minimum radius (R_{min}) of curvature, wherein the plated layer forms a minimum radius (R_{min}) of curvature in said step (d) that is smaller than the desired radius (R) of curvature.
 - 2-6. (Cancelled)
- 7. (Currently Amended) The method according to claim [[5]] 1, wherein said step (d) comprises causing a current to flow between the cathode and an anode plate in an electroplating bath and said step (e) comprises ending the current flow.

8. (Cancelled)

- 9. (Currently Amended) A fabrication method of a microlens having a desired radius (R) of curvature, said method comprising the steps of:
 - (a) preparing a substrate at least a portion of which is electrically conductive;
- (b) forming an insulating mask layer on the conductive portion of the substrate;
- (c) forming an opening in the mask layer to expose the conductive portion of the substrate at the opening such that a diameter or width (ϕ) of the opening is $10\mu\text{m} \le \phi \le 0.35\text{R}$:[[,]]
- (d) performing electroplating using the conductive portion of the substrate as a cathode to deposit a plated layer in the opening and on the mask layer;
- (e) terminating electroplating when the plated layer reaches the desired radius (R) of curvature after forming a minimum radius (R_{min}) of curvature;
 - (f) forming a mold on the substrate;
 - (g) separating the mold from the substrate;
 - (h) coating a lens material on the mold; and
 - (i) separating the lens material from the mold.